Project Planning Phase

Project Planning (Product Backlog, Sprint Planning, Stories, Story points)

Date	22 October 2022
Team ID	PNT2022TMID30150
Project Name	Virtual Eye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	1	High	Ajitha R and Kavitha R
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application.	2	Low	Ajitha R and Kavitha R
Sprint-1		USN-3	As a user, I can register for the application through Gmail	2	Medium	Ajitha R and Kavitha R
Sprint-1	Login	USN-4	As a user, I can log into the application by entering email & password.	1	High	Ajitha R and Kavitha R
Sprint-1		USN-5	In prediction page, as a user, I can upload the data to detect the drowning person.	2	Medium	Ajitha R and Kavitha R
Sprint-1	Dataset collection	USN-6	We can collect number of datasets; we can get high accuracy depends on collecting the number of datasets.	2	High	Ajitha R and Kavitha R

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2	Data Pre-processing	USN-7	The dataset is extracted and is used to train the model.	4	High	Ajitha R and Kavitha R
Sprint-2	Train the model	USN-8	We will train the model.	8	High	Ajitha R and Kavitha R
Sprint-2		USN-9	We will test the model.	6	High	Jothika S and Kaviya K
Sprint-3	Detection	USN-10	Load the trained model.	3	High	Ajitha R and Kavitha R
Sprint-3		USN-11	To identify the person by collecting real-time data through a webcam.	5	Medium	Jothika S and Kaviya K
Sprint-3		USN-12	Now the real-time data to classify it by using a trained model to predict the output of the given real-time input.	8	High	Jothika S And Kaviya K
Sprint-4		USN-13	If in case the person is drowning, the system will ring an alarm to notify for rescue the person.	7	High	Jothika S and Kaviya K
Sprint-4		USN-14	As a user, I can detect the drowning person.	3	Medium	Jothika S and Kaviya K
Sprint-4	Logout	USN-15	As a user, I can logout into the application.	2	Low	Jothika S and Kaviya K

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	10	6 Days	24 Oct 2022	29 Oct 2022		29 Oct 2022
Sprint-2	18	6 Days	31 Oct 2022	05 Nov 2022		
Sprint-3	16	6 Days	07 Nov 2022	12 Nov 2022		
Sprint-4	12	6 Days	14 Nov 2022	19 Nov 2022		

Velocity:

For Sprint-1 the Average Velocity (AV) is:

AV = Sprint Duration / velocity = 10 / 6 = 1.6

For Sprint-2 the Average Velocity (AV) is:

AV = Sprint Duration / velocity = 18 / 6 = 3.0

For Sprint-3 the Average Velocity (AV) is:

AV = Sprint Duration / velocity = 16 / 6 = 2.6

For Sprint-4 the Average Velocity (AV) is:

AV = Sprint Duration / velocity = 12/ 6 = 2.0

TOTAL AVERAGE VELOCITY = 2.3